

### Abstract

2           Disclosed is a novel method and apparatus for acquiring multiple  
capacitively sensed measurements from a circuit under test. Multiple digital  
4           sources are respectively connected to stimulate multiple respective first ends  
of multiple respective nets of interest. Respective second ends of the  
6           multiple respective nets of interest are capacitively sensed. The respective  
capacitively coupled signals are digitally sampled and shift correlated with  
8           respective expected digital signatures. If a high level of correlation is found  
for a given net, the net is electrically intact; otherwise, the net is  
10          characterized by either an open or some other fault that prevents it from  
meeting specification.